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### 1 [Reasoning with semantics-aware access control policies for](#)

#### [geospatial web services](#)

Ashrafal Alam, Ganesh Subbiah, Bhavani Thuraisingam, Latifur Khan  
November 2006 **SWS '06**: Proceedings of the 3rd ACM workshop on Secure web services

**Publisher:** ACM

 Full text available: pdf(287.23 KB) Additional Information: [full citation](#), [abstract](#),  
[references](#), [index terms](#)

A major obstacle on the way to the successful deployment and operation of Web services on a larger scale is a lack of sophisticated semantics model to represent and communicate the data. To solve the problem, semantics-aware Web services have been proposed. ...

**Keywords:** OWL-S, RDF, SOA, geospatial semantic web, semantic web services

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### 2 [A data-oriented \(and beyond\) network architecture](#)

#### Teemu Koponen, Mohit Chawla, Byung-Gon Chun, Andrey Ermolinskiy, Kye Hyun Kim, Scott Shenker, Ion Stoica

August 2007 **SIGCOMM '07**: Proceedings of the 2007 conference on Applications, technologies, architectures, and protocols for computer communications

**Publisher:** ACM

 Full text available: pdf(841.38 KB) Additional Information: [full citation](#), [abstract](#),  
[references](#), [index terms](#)

The Internet has evolved greatly from its original incarnation. For instance, the vast majority of current Internet usage is data retrieval and service access, whereas the architecture was designed around host-to-host applications such as telnet and ...

**Keywords:** data, internet architecture, middleboxes, name resolution, naming

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3

### [A data-oriented \(and beyond\) network architecture](#)



Teemu Koponen, Mohit Chawla, Byung-Gon Chun, Andrey Ermolinskiy, Kye Hyun Kim, Scott Shenker, Ion Stoica  
 October 2007 **SIGCOMM '07: ACM SIGCOMM Computer Communication Review**, Volume 37 Issue 4

**Publisher:** ACM

Full text available: pdf(841.38 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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**Keywords:** data, internet architecture, middleboxes, name resolution, naming

#### 4 A formal model for reasoning about adaptive QoS-enabled middleware



Nalini Venkatasubramanian, Carolyn Talcott, Gul A. Agha  
 January 2004 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 13 Issue 1

**Publisher:** ACM

Full text available: pdf(1.42 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Systems that provide distributed multimedia services are subject to constant evolution; customizable middleware is required to effectively manage this change. Middleware services for resource management execute concurrently with each other, and with ...

**Keywords:** Middleware services, actors, meta-object models, multimedia, quality-of-service, reflection, theoretical foundations

#### 5 Certified mailing lists



Himanshu Khurana, Hyung-Seok Hahm  
 March 2006 **ASIACCS '06: Proceedings of the 2006 ACM Symposium on Information, computer and communications security**

**Publisher:** ACM

Full text available: pdf(431.56 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Email List Services (or simply, *mailing lists*) are becoming increasingly common for collaborative computing. In order to enable their use for official purposes with increased effectiveness and security, services typically provided by postal mail ...

**Keywords:** certified delivery, mailing lists

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## 1 [Succinct representation of flexible and privacy-preserving access rights](#)

Marina Blanton, Mikhail Atallah

November 2006 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 15 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available:  pdf(525.96 KB) Additional Information: [full citation](#), [abstract](#)

We explore the problem of portable and flexible privacy preserving access rights that permit access to a large collection of digital goods. *Privacy-preserving* access control means that the service provider can neither learn what access rights ...

**Keywords:** Compact representation, Flexible access rights, Privacy-preserving access rights

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## 2 [A framework for decentralized access control](#)

 Meenakshi Balasubramanian, Abhishek Bhatnagar, Namit Chaturvedi, Atish Datta Chowdhury, Arul Ganesh

March 2007 **ASIACCS '07: Proceedings of the 2nd ACM symposium on Information, computer and communications security**


Publisher: ACM

Full text available:  pdf(284.47 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present a framework for decentralized authorization for physical access control, using smart cards, where access to individual rooms is guarded by context-dependent policies that are dynamically evaluated. Policies are specified using a logical language ...


**Keywords:** authorization, decentralization, physical access control

## 3 [Putting computing in context: An infrastructure to support extensible context-enhanced collaborative applications](#)

 W. Keith Edwards

December 2005 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 12 Issue 4

Publisher: ACM

Full text available:  pdf(1.20 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Context-aware computing exposes a unique tension in how information about human context is modeled and used. On the one hand, approaches that use loosely structured information have been shown to be useful in situations where humans are the final consumers ...

**Keywords:** Collaboration, context-aware computing, coordination, data representations

4 Yesterday's tomorrows: notes on ubiquitous computing's dominant vision

Genevieve Bell, Paul Dourish

February 2007 **Personal and Ubiquitous Computing**, Volume 11 Issue 2

**Publisher:** Springer-Verlag

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Ubiquitous computing is unusual amongst technological research arenas. Most areas of computer science research, such as programming language implementation, distributed operating system design, or denotational semantics, are defined largely by technical ...


5 An enhanced architecture for mobile retailing



Robert Steele, Will Tao

October 2006 **Mobility '06: Proceedings of the 3rd international conference on Mobile technology, applications & systems**

**Publisher:** ACM

Full text available:  pdf(179.01 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we describe how to apply our previous research outcome, the MobiPass architecture to the retailing industry to enrich the shopping experience and provide new capabilities in the full retailing process. We consider these capabilities within ...


**Keywords:** mobile commerce, mobile computing, trustworthy computing, ubiquitous retailing

6 RCBR: a simple and efficient service for multiple time-scale traffic

Matthias Grossglauser, Srinivasan Keshav, David N. C. Tse

December 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 6

**Publisher:** IEEE Press

Full text available:  pdf(617.74 KB) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Keywords:** compressed video, multiple time scales, renegotiation, variable bit-rate service

7 BASS: boxed ambients with safe sessions




Pablo Garraalda, Adriana Compagnoni, Mariangiola Dezani-Ciancaglini

July 2006 **PPDP '06: Proceedings of the 8th ACM SIGPLAN symposium on**

Principles and practice of declarative programming

**Publisher:** ACM

Full text available:  [pdf\(266.81 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We define **BASS**, a typed *boxed ambients* calculus with *safe sessions*. Sessions offer the possibility of using the same channel to transmit information of different types in a prescribed order. A session involves two communicating processes ...

**Keywords:** ambient calculus, boxed ambients; session types


8 URSA: ubiquitous and robust access control for mobile ad hoc networks

Haiyun Luo, Jiejun Kong, Petros Zerfos, Songwu Lu, Lixia Zhang

December 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue

6

**Publisher:** IEEE Press

Full text available:  [pdf\(836.70 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Restricting network access of routing and packet forwarding to well-behaving nodes and denying access from misbehaving nodes are critical for the proper functioning of a mobile ad-hoc network where cooperation among all networking nodes is usually assumed. ...

**Keywords:** mobile ad hoc networks, self-organized access control


9 An empirical study of spam traffic and the use of DNS black lists



Jaeyeon Jung, Emil Sit

October 2004 **IMC '04: Proceedings of the 4th ACM SIGCOMM conference on Internet measurement**

**Publisher:** ACM

Full text available:  [pdf\(73.23 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

This paper presents quantitative data about SMTP traffic to MIT's Computer Science and Artificial Intelligence Laboratory (CSAIL) based on packet traces taken in December 2000 and February 2004. These traces show that the volume of email has increased ...

**Keywords:** DNS black lists, Zipf-like distribution, spam traffic


10 On automated message processing in electronic commerce and work support systems: speech act theory and expressive felicity



Steven O. Kimbrough, Scott A. Moore

October 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 4

**Publisher:** ACM

Full text available:  [pdf\(502.20 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Electronic messaging, whether in an office environment or for electronic commerce, is normally carried out in natural language, even when supported by information systems. For a variety of reasons, it would be useful if electronic messaging systems could ...

**Keywords:** electronic commerce, formal language for business communication, speech act theory

**11** Software security and privacy risks in mobile e-commerce



Anup K. Ghosh, Tara M. Swaminatha  
February 2001 **Communications of the ACM**, Volume 44 Issue 2  
**Publisher:** ACM

Additional Information: [full citation](#),  
[appendices and supplements](#),  
[references, cited by](#),  
[index terms](#)

Full text available: [pdf\(90.58 KB\)](#) [html\(38.81 KB\)](#)

**12** An architecture for SDP-based bandwidth resource allocation with QoS for SIP in IEEE 802.16 networks



Michael Alexander, Peter Suppan  
October 2006 **Q2SWinet '06: Proceedings of the 2nd ACM international workshop on Quality of service & security for wireless and mobile networks**  
**Publisher:** ACM

Full text available: [pdf\(223.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#),  
[index terms](#)

The IEEE 802.16 link-layer offers rich QoS primitives which make it an attractive transport for voice traffic. Yet, its QoS capabilities are disjoint from the application layer protocols, such as SIP. This paper presents a new approach with a demonstrator ...

**Keywords:** IEEE 802.16, QoS, SDP, SIP, SIP proxy, WiMax, resource allocation

**13** Feature specification and automated conflict detection



Amy P. Felty, Kedar S. Namjoshi  
January 2003 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 12 Issue 1  
**Publisher:** ACM


Full text available: [pdf\(223.26 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references, cited by](#), [index terms](#)

Large software systems, especially in the telecommunications field, are often specified as a collection of features. We present a formal specification language for describing features, and a method of automatically detecting conflicts ("undesirable interactions") ...

**Keywords:** Feature interaction, linear temporal logic, telecommunications software and systems

**14** A service management framework for M-commerce applications

Gary Shih, Simon S. Y. Shim  
June 2002 **Mobile Networks and Applications**, Volume 7 Issue 3  
**Publisher:** Kluwer Academic Publishers

Full text available:  pdf(650.12 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Mobile commerce (m-commerce) refers to an ability to conduct wireless commerce transactions using mobile applications in mobile devices. M-commerce applications can range from as simple as an address book synchronization to as complicated as credit card ...


**Keywords:** JINI, WAP, m-commerce, management, mobile devices

15 An actor-network approach to games and virtual environments

Mark Cypher, Ingrid Richardson

December 2006 **CyberGames '06**: Proceedings of the 2006 international conference on Game research and development

**Publisher:** Murdoch University

Full text available:  pdf(391.33 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

In this paper we apply some of the insights of Bruno Latour and actor network theory to suggest that games and virtual spaces can be interpreted as aesthetic forms which are established and stabilised by a 'collective' of humans and technologies. The ...


16 Amicus: Dendrite International, Inc. v. John Does



Paul Alan Levy, J. C. Salyer

April 2002 **CFP '02**: Proceedings of the 12th annual conference on Computers, freedom and privacy

**Publisher:** ACM

Full text available:  pdf(189.08 KB) Additional Information: [full citation](#), [cited by](#), [index terms](#)

17 Yesterday's tomorrows: notes on ubiquitous computing's dominant vision

Genevieve Bell, Paul Dourish

January 2007 **Personal and Ubiquitous Computing**, Volume 11 Issue 2

**Publisher:** Springer-Verlag

Full text available:  pdf(249.91 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Ubiquitous computing is unusual amongst technological research arenas. Most areas of computer science research, such as programming language implementation, distributed operating system design, or denotational semantics, are defined largely by technical ...

18 Securing the commercial Internet



Anish Bhimani

June 1996 **Communications of the ACM**, Volume 39 Issue 6

**Publisher:** ACM

Full text available:  pdf(1.14 MB) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#), [review](#)



19 A formal model for reasoning about adaptive QoS-enabled middleware



Nalini Venkatasubramanian, Carolyn Talcott, Gul A. Agha

January 2004 **ACM Transactions on Software Engineering and Methodology**  
(TOSEM), Volume 13 Issue 1

**Publisher:** ACM

Full text available: pdf(1.42 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Systems that provide distributed multimedia services are subject to constant evolution; customizable middleware is required to effectively manage this change. Middleware services for resource management execute concurrently with each other, and with ...

**Keywords:** Middleware services, actors, meta-object models, multimedia, quality-of-service, reflection, theoretical foundations

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